

ABSTRACT

A varactor has a plurality of alternating P-wells and N+ regions formed in a silicon layer. Each of the P-wells forms a first N+/P- junction with the N+ region on one of its sides and a second N+/P- junction 5 with the N+ region on the other of its sides. A gate oxide is provided over each of the P-wells, and a gate silicon is provided over each of the gate oxides. The potential across the gate silicons and the N+ regions controls the capacitance of the varactor.